

## Conjugation of rhizobia and E. coli cells

1. 0.4-0.5 OD → Spin down 5 mL rhizobia. Spin down 1 mL → Take proportion 100 microliter E. coli from midlog phase. Get rid of antibiotics. Resuspend in 20 microliters TY.

a. 10 mL rhizobia culture total

2. Spun 20 mL rhizobia. Spun 1 mL E. coli. for each.

3. Resuspend E. coli in 10 microliter TY. Resuspend Rhizobia. 80 microliter TY.

4. TY plate 2. Filter paper on top. Put 21 microliter on top. Put 37C.

Liquid: 1.5 mL eppendorf OV 37C.